

Table 1
Water Quality Triggers for Additional Environmental Controls

Parameter	Unit	Location	Trigger ^{a,c}		Action Triggered
Turbidity	Nephelometric Turbidity Units (NTU)	100 meters (328 feet) downstream from point of dredging or 150 feet downstream of containment barriers (whichever is greater) ^b	> 3 NTU over background (where background <50 NTU) >10% over background (where background >50 NTU) ^c >50 NTU over background, cease operations		Inspect construction and select an additional control(s) that focus on cause of exceedance
Dissolved Oxygen (DO)	mg/L	100 meters (328 feet) downstream from point of dredging or 150 feet downstream of containment barriers (whichever is greater) ^b	<6.5 modify operations <6.0 cease operations ^d		Inspect construction and select an additional control(s) that focus on cause of exceedance
pH	Standard units	100 meters (328 feet) downstream from point of dredging or 150 feet downstream of containment barriers (whichever is greater) ^b	<6.5 or >8.5		Inspect construction and select an additional control(s) that focus on cause of exceedance
Oil/Sheen	Visual Observation	Outside of outer containment barrier	Any visible oil/sheen present outside the outer containment barrier		Inspect construction and select targeted additional sheen control(s) from Section 3.1
			Aquatic Chronic	Aquatic Acute	
Anthracene	µg/L	100 meters (328 feet) downstream from point of dredging or 150 feet downstream of containment barriers (whichever is greater) ^b	0.73	13	For chronic, confirm standard controls and increase monitoring to once per day (see RAPP for exceedances of more than four consecutive days). For acute, stop operations, inspect construction and select an additional control(s) that focus on cause of exceedance
Benzo(a)anthracene			0.027	0.49	
Benzo(a)pyrene			0.014	0.24	
Dibenzofuran			3.7	66	
Fluoranthene			6.16	3,980	
Fluorene			3.9	70	
Naphthalene			12	190	
Cyanide			5.2	22	
Water Velocity	fps	Upstream and immediately in line with operation	1.0 fps		Stop operations and secure silt curtains and other containment barriers.
Distressed or Dead Fish	Visual Observation	Anywhere in proximity to site.	Any distressed, dying, or dead fish		Stop all operation, collect fish, determine species, notify Services if listed species present, apply controls required by Biological Opinion and/or additional controls for nonlisted species (see Section IV.E.3 for handling of distressed or dead fish.

^a If field parameter monitoring results exceed trigger, then the same field parameter will be measured within 30 minutes of the determination of the exceedance. If the exceedance continues, the additional controls discussed in Section 3 will be implemented.

- b Sampling will occur at the specified distance from the edge of the outer containment barrier. Although flow reversals due to tidal fluctuations are rare in winter months on this part of the river, if such reversals are observed, sampling will be conducted up current (background) and down current for field parameters, as appropriate.
- c Trigger is exceeded where downstream conditions exceed the specified amounts relative to the event-specific background or the preconstruction background survey.
- d If DO levels fall below 6.5 mg/l, additional controls discussed in Section 3 will be implemented. If DO levels fall below 6.0 mg/L, operations will cease until DO levels rise above 6.0 mg/L and additional controls discussed in Section 3 will be implemented before resumption of work.
- e If chronic levels are exceeded, see text for description of activities. If acute levels are exceeded, additional controls will be applied where activities are still consistent with activities at the time the sampling occurred.